

U.S. EPA's National Beach Conference

March 15–17, 2011 Miami, Florida

Agenda

Monday, March 14, 2011 (Pre-conference Meetings and Activities)

	Hibiscus Room and Promenade		
8:00-6:00	Registration		
8:00-10:00	Beach Monitoring 101 for State or Local Beach Managers		
10:00-12:00	Introduction to Rapid Methods		
1:00-6:00	Predictive Tools Forum		
1:00-6:00	Rapid Methods "Hands-on Lab"		

Tuesday, March 15, 2011

Tuesday, March 15, 2011				
		Regency Ballroom		
7:00-5:00	Registration			
7:30-9:30	Continental Breakfast Sponsored by BioGX, Inc.			
8:00-9:30	Session I: Welcome Speakers			
	8:00–8:20	EPA Welcome Nancy Stoner, U.S. EPA Office of Water		
	8:20–8:40	Local Welcome Samir Elmir, Miami Dade County Health Department		
	8:40–9:10	Rapid Methods for Beach Water Quality Monitoring: Public Health Perspectives during a California Demonstration Project Larry Honeybourne, Orange County Health Care Agency		
9:10-10:00	BREAK			
10:00-11:45		ow is Beach Program Policy Evolving? :: John Wathen, U.S. EPA Office of Science and Technology		
	10:00–10:20	EU Bathing Water Profiles in Scotland Calum McPhail, Scottish Environment Protection Agency		
	10:20–10:40	Meeting Coming Challenges in BEACH Act Monitoring and Notification Programs Denise Hawkins, U.S. EPA Office of Science and Technology		

	10:40–11:00	A New Approach to Beach Tiering in Beach Monitoring and Notification Programs John Wathen, U.S. EPA Office of Science and Technology
	11:00–11:20	EPA's Current Thinking on Development of New Recreational Water Criteria Grace Robiou, U.S. EPA Office of Science and Technology
	11:20—11:45	Panel Discussion
11:45-1:15	LUNCH (on yo	our own)
1:15-3:00	Session III: How is Beach Management Evolving in a Time of Changing Priorit and Policies? Session Chair: David Polk, Florida Department of Health	
	1:15–1:35	Proposed Coastal Environmental Health Landing Page—An SC EPHT Project Fran Marshall, South Carolina Department of Health and Environmental Control
	1:35–1:55	Coastal Pathogen Efforts of the Gulf of Mexico Alliance Christopher Sinigalliano, National Oceanic and Atmospheric Administration
	1:55–2:15	California's Clean Beach Initiative: Is It Working? Amanda Griesbach, Heal the Bay
	2:15–2:35	Implementing the Great Lakes Restoration Initiative: A Beach Manager's View Cathy Breitenbach, Chicago Park District
	2:35-3:00	Panel Discussion
3:00-3:30	BREAK	
3:30-5:15		ow Do We Reach the Beachgoing Public with the Best Information? John Heffelfinger, U.S. EPA Office of Policy
	3:30–3:50	Assessing the Effectiveness of the BEACH Act Notification Program Tracy Dyke-Redmond, Industrial Economics, Inc.
	3:50-4:10	Communicating Recreational Water Quality Preethi Pratap, University of Illinois at Chicago, School of Public Health
	4:10–4:30	The Use of Social Media Tools and Volunteer Programs to Notify the Public and Maximize Benefits of Washington State's Swimming Beach Program Jessica Archer, Washington State Department of Ecology
	4:30–4:50	Improving Health Risk Communication: The Need for a National Beach Report Card Mark Gold, Heal the Bay
	4:50–5:15	Panel Discussion

		Regency Ballroom
7:30-4:00	Registration	
7:30-9:30	Continental	Breakfast Sponsored by AbTech Industries, Inc.
8:00-9:45	Session V: Epidemiological Studies: What Does the Science Tell Us? Session Chair: Tim Wade, U.S. EPA Office of Research and Development	
	8:00–8:20	Indicators of Water Quality and Health Effects at a Tropical and a Runoff Impacted Beach Tim Wade, U.S. EPA Office of Research and Development
	8:20–8:40	Rapid Indicators for Enterococcus and the Risk of Illness after Exposure to Urban Runoff Contaminated Marine Water: Results from a "Natural Experiment" Jack Colford, University of California, Berkeley, School of Public Health
	8:40–9:00	The BEACHES Study 1: Health Effects from Non-point Source Microbial Contaminants in Subtropical Recreational Marine Waters Lora Fleming, University of Miami
	9:00–9:20	Comparing Swimming-related Illness Associations with Fecal Indicators Quantified by qPCR and Culture-based Methods at a Freshwater Beach Jiyoung Lee, Ohio State University
	9:20-9:45	Panel Discussion
9:45-10:15	BREAK	
10:15-12:00	There?	Other Rapid Methods and Alternative Indicators: What Else is Out r: John Griffith, Southern California Coastal Water Research Program
	10:15–10:35	Examining the Range of Rapid Testing Approaches Available for Beach Water Quality Testing Rachel Noble, University of North Carolina–Chapel Hill
	10:35–10:55	Performance Criteria and Field Testing of qPCR Methods for Human- associated Microbial Source Tracking Markers and Fecal Indicator Bacteria in Fresh and Salt Surface Waters Valerie Harwood, University of South Florida
	10:55–11:15	Out of the Lab and into the Ocean: Remote Detection of Fecal Indicators Using In Situ Real-time PCR Kevan Yamahara, Stanford University, Center for Ocean Solutions
	11:15–11:35	Improving Prediction of Illness in Swimmers with Alternative Statistical Estimators and Combinations of Traditional and Novel Indicators

12:00-1:30 LUNCH (on your own)

11:35-12:00

Panel Discussion

Vincent Yau, University of California, Berkeley

1:30-3:15		What Are the Roles of Sanitary Surveys and Source Tracking? r: Shannon Briggs, Michigan Department of Natural Resources and	
	1:30–1:50	Variation of Nearshore Water Quality in the Presence of Transient Sources Adrian Koski, Racine Health Department	
	1:50–2:10	Municipal Guide to Clean Water: Conducting Sanitary Surveys to Improve Coastal Water Quality Keri Lindberg, University of Maine Cooperative Extension	
	2:10–2:30	Global Inter-lab Fecal Source Tracking Methods Comparison Study Orin Shanks, U.S. EPA	
	2:30–2:50	Comprehensive Beach Sanitary Survey in Wisconsin Greg Kleinheinz, University of Wisconsin Oshkosh	
	2:50-3:15	Panel Discussion	
3:15-3:45	BREAK		
	Session VIII: How Do We Use Quantitative Microbial Risk Assessment to D Site-specific Criteria? Session Chair: Jeff Soller, Soller Environmental		
3:45-5:30	Site-specific	Criteria?	
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3:45-5:30	Site-specific Session Chair	Criteria? r: Jeff Soller, Soller Environmental Use of QMRA to Evaluate Recreational Water Risks from Human and Nonhuman Sources	
3:45-5:30	Site-specific Session Chair 3:45–4:05	Criteria? r: Jeff Soller, Soller Environmental Use of QMRA to Evaluate Recreational Water Risks from Human and Nonhuman Sources Jeff Soller, Soller Environmental and Nick Ashbolt, U.S. EPA Monitoring of Human Pathogens and Source Identifiers in Discharges Across the United States: QMRA from Source to Bathing Site Stefan Wuertz, University of California—Davis and Graham McBride,	
3:45-5:30	Site-specific <i>Session Chai</i> 3:45–4:05	Criteria? r: Jeff Soller, Soller Environmental Use of QMRA to Evaluate Recreational Water Risks from Human and Nonhuman Sources Jeff Soller, Soller Environmental and Nick Ashbolt, U.S. EPA Monitoring of Human Pathogens and Source Identifiers in Discharges Across the United States: QMRA from Source to Bathing Site Stefan Wuertz, University of California—Davis and Graham McBride, National Institute of Water and Atmospheric Research Protect Public Health, Use Good Science, Lesser Cost—Can We Pick 3?	

Regency Ballroom

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7:30-1:00	Registration				
8:00-9:45	Session IX: How Do Rapid Methods Fit into the Larger Clean Water Act Paradigm? Session Chair: Joel Hansel, U.S. EPA Region 4				
	8:00–8:20	Application of Molecular Microbial Source Tracking to Monitor Recreational Water Quality Improvements of Residential Canals in the Florida Keys David Wanless, University of Miami, Cooperative Institute for Marine and Atmospheric Studies			
	8:20–8:40	Pick an Indicator, Any Indicator: Implications for 303(d) Listings, TMDLs, and Clean Water Act Compliance Dustin Bambic, AMEC Earth & Environmental, Inc.			
	8:40–9:00	The Clean Water Act—Beyond BEACHES and TMDLs Joel Hansel, U.S. EPA Region 4			
	9:00-9:45	Panel Discussion			
9:45-10:15	BREAK				
10:15-12:00	Session X: How Can Predictive Tools Complement Beach Monitoring Program Session Chairs: Richard Whitman, U.S. Geological Survey and David Rockwell, University of Michigan				
	10:15–10:35	Spectral Multiple Linear Regression: An Approach for Modeling Decadal and Shorter Period Fluctuations in Water Quality at Ocean Beaches Stanley Grant, University of California–Irvine			
	10:35–10:55	Development of Predictive Models to Aid Beach Management at Toronto (Canada) Public Beaches Diane Mas, Fuss & O'Neill, Inc.			
	10:55–11:15	Methodologies to Complement the Direct Application of MLR Model Development Walter Frick			
	11:15–11:35	Are Applications of Swimming Water Quality Criteria Overly Conservative? Richard Whitman, U.S. Geological Survey and Meredith Nevers, U.S. Geological Survey			
	11:35–12:00	Panel Discussion			
12:00-1:30	LUNCH (on yo	our own)			
1:30-3:15	Session XI: Implementing New Methods: How Can We Meet the Challenge? Session Chair: Julie Kinzelman, Racine Department of Health				
	1:30–1:50	Implementation of Nowcast Predictive Models Donna Francy, U.S. Geological Survey			
	1:50–2:10	Establishment of Regional Rapid Testing Laboratories throughout Wisconsin Greg Kleinheinz, University of Wisconsin Oshkosh			

2:10–2:30 Comparative Evaluation of Molecular and Culture Methods for Fecal-indicator Bacteria in Geographically-distributed Recreational Inland Waters Rebecca Bushon, U.S. Geological Survey

2:30–3:15 Panel Discussion

3:15-3:45 BREAK

3:45-5:30 Session XII: Putting it All Together: Where Do We Go from Here? Session Chair: Alexandria Boehm, Stanford University

Panelists:

- Alexandria Boehm, Stanford University
- Samir Elmir, Miami Dade County Health Department
- Mark Gold, Heal the Bay
- Larry Honeybourne, Orange County Health Care Agency
- Julie Kinzelman, Racine Department of Health
- David Polk, Florida Department of Health
- Grace Robiou, U.S. EPA Office of Science and Technology
- Helena Solo-Gabriele, University of Miami